

**Notice of Allowability**

Application No.

09/608,692

Examiner

Man Phan

Applicant(s)

LEUNG, KENT K.

Art Unit

2665

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the communication filed 01/24/2005.
2. ☒ The allowed claim(s) is/are 1-5, 7-47 (Claims are renumbered as 1-46 respectively).
3. ☐ The drawings filed on \_\_\_\_\_ are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All   b) ☐ Some\*   c) ☐ None   of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☒ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☒ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date #5.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

*Reasons for allowance*

1. This communication is in response to applicant's 01/24/2005 amendment in the application of Leung for the "Methods and apparatus for implementing a proxy mobile node in a wireless local area network" filed 06/29/2000. This application is a Request for Continued Examination (RCE) under C.F.R. 1.114 filed on January 24, 2005. The proposed amendment has been entered and made of record. Claim 6 has been canceled per applicant's request, and newly claims 40-47 have been added. Claims 1, 5, 7, 13, 18, 20, 21, 24, 31, 34 and 36-39 have been amended to better point out and more distinctly claim subject matter comprising the invention.

2. Claims 1-5, 7-47 are allowable as evident by applicant's amendment (Claims are renumbered as 1-46 respectively).

3. The following is an examiner's statement of reasons for allowance: The instant application is deemed to be directed to a no obvious improvement over the prior art of record. The improvement comprises wherein the node attachment message indicating that the node is in a vicinity of the Foreign Agent when in a first state and that the node is not in a vicinity of the Foreign Agent when in a second state; instructions for initiating registration on behalf of the node when the node attachment message is in the first state; and instructions for initiating de-registration on behalf of the node when the node attachment message is in the second state, as specifically recited in the claims. The instant invention, in combination with the other claimed

features, improves upon the Prior Art by providing a method and system for providing proxy mobile node support for a node that changes its location within a network.

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### *Conclusion*

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The Leung et al. (US#6,795,857) is cited to show the methods and apparatus for providing mobility of a node that does not support mobility.

The Das et al. (US#2002/0026527) is cited to show the methods and systems for a generalized mobility solution using a dynamic tunneling agent.

The Das et al. (US#6,742,036) is cited to show the method for supporting mobility on the internet.

The Agrawal et al. (US#2004/0024901) is cited to show the telecommunication enhanced mobile IP architecture for intra-domain mobility.

The Willkie et al. (US#6,230,012) is cited to show the IP mobility support using proxy mobile node registration.

The Lioy (US#6,665,537) is cited to show the automatic invocation of mobile IP registration in a wireless communication network.

The Khalil et al. (US#6,578,085) is cited to show the system and method for route optimization in a wireless internet protocol network.

The Gremmelmaier (US#6,308,267) is cited to show the arrangement and method for mobile communications having an IP link.

***Any response to this action should be mailed to:***

Commissioner of Patents and Trademarks

Washington, D.C. 20231

**or faxed to:**

(703) 308-9051, (for formal communications intended for entry)

**Or:**

(703) 305-3988 (for informal or draft communications, please label "PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA., Sixth Floor (Receptionist).

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Man U. Phan whose telephone number is (571) 272-3149. The examiner can normally be reached Monday through Friday from 6:00 am to 3:00 pm.

Art Unit: 2665


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu, can be reached on (571) 272-3155. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306/9314.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-2600.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have any questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at toll free 1-866-217-9197.

MPhan

Mar. 30, 2005

  
MAN U. PHAN  
PRIMARY EXAMINER